

FIG. 1

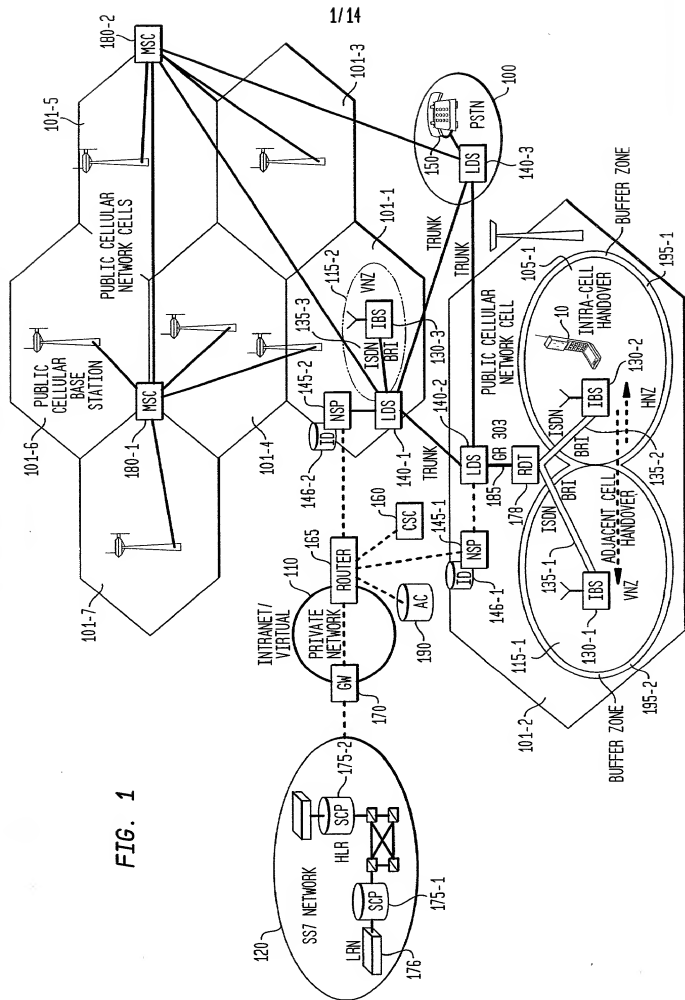


FIG. 2

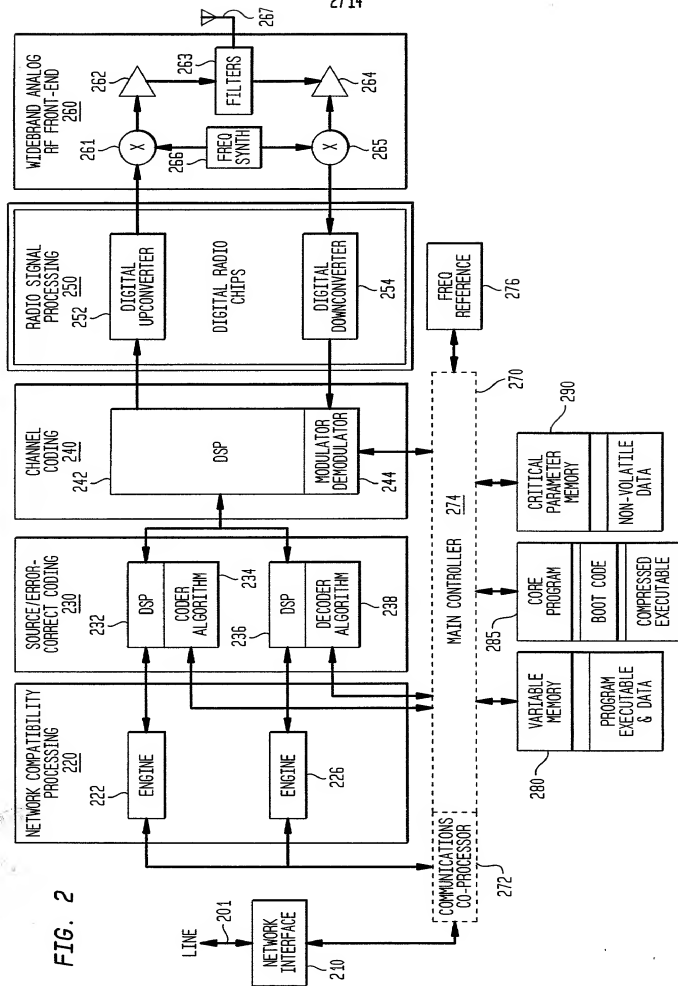


FIG. 3

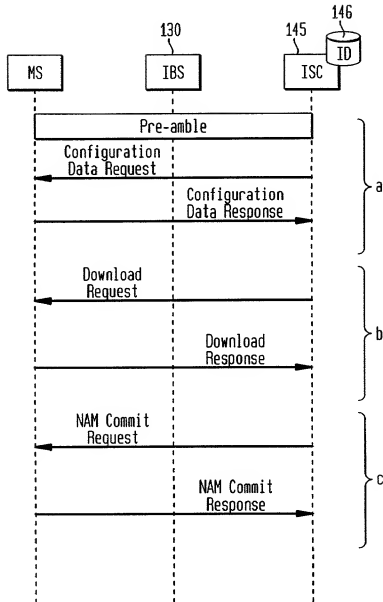


FIG. 4A

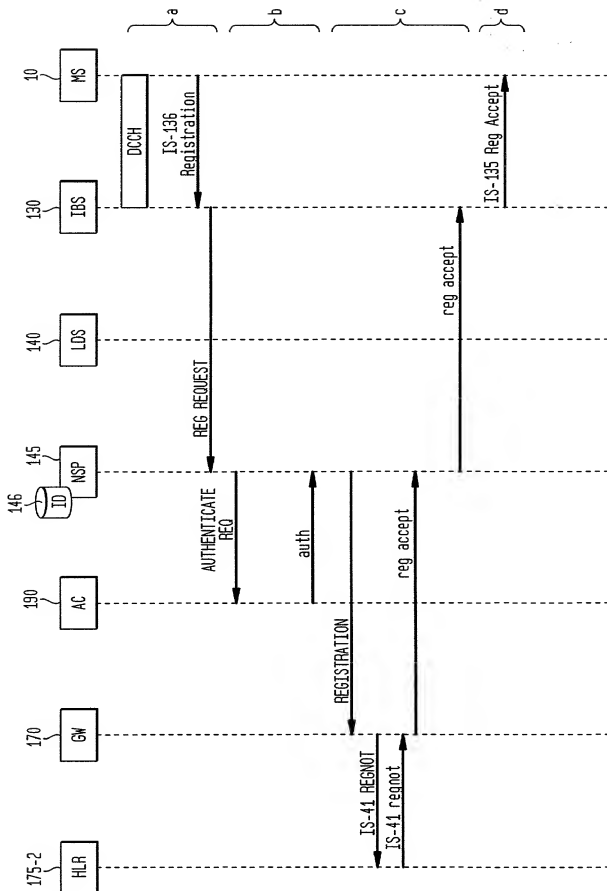


FIG. 4B

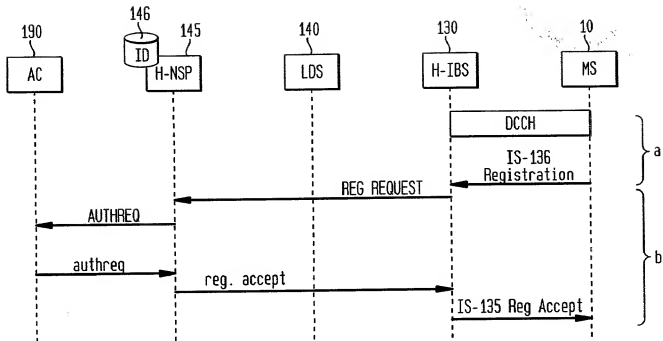
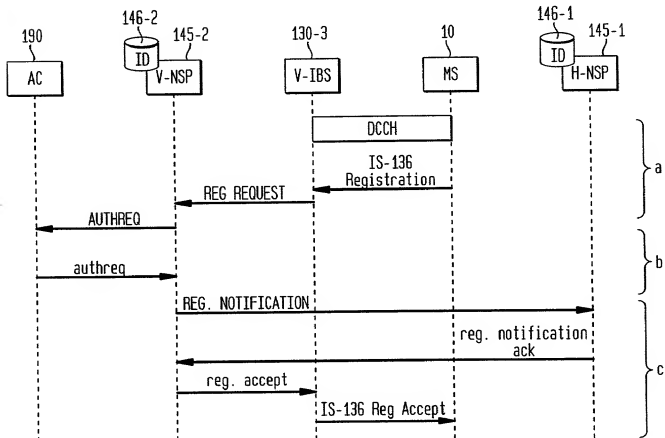


FIG. 4C



The diagram illustrates the sequence of events for a mobile telephone call setup, involving the following components:

- 100 PSTN** (Public Switched Telephone Network)
- 180 MSC** (Mobile Switching Center)
- 175-2 HLR** (Home Location Register)
- 170 GW** (Gateway)
- 146-1 ID** (Identifier)
- 145-1 H-NP** (Home Number Port)
- 140-2 LDS** (Local Directory Service)
- 130-2 H-IBS** (Home Integrated Billing Service)
- 10 MS** (Mobile Station)

The process is divided into phases labeled a through g:

- a**: Incoming call from PSTN to MSC (ISUP IAM).
- b**: MSC to HLR (IS-41 LOCREQ), HLR to GW (IS-41 ROUTREQ), GW to ID (ROUTE REQ. (MIN)), ID to H-NP (route req (FDN)).
- c**: H-NP to LDS (IS-41 locreq (FDN)), LDS to H-IBS (IS-41 routereq (FDN)).
- d**: H-IBS to MS (0.931 SETUP), MS to H-IBS (CALL REQUEST (FDN)).
- e**: H-IBS to LDS (call req ack (MIN, DTC, B-chan)), LDS to H-IBS (0.931 call proceeding).
- f**: H-IBS to MS (paging process incl page response), MS to H-IBS (DTC Designation, DVCC status change).
- g**: H-IBS to MS (IS-136 alert with info), MS to H-IBS (ISUP ACM), H-IBS to LDS (ISUP ACM), LDS to H-IBS (0.931 alerting), H-IBS to MS (ISUP ANM), MS to H-IBS (0.931 connect), H-IBS to LDS (ISUP ANM), LDS to H-IBS (0.931 connect).

Time intervals T1, T2, and T3 are marked on the timeline.

voice path

FIG. 5B

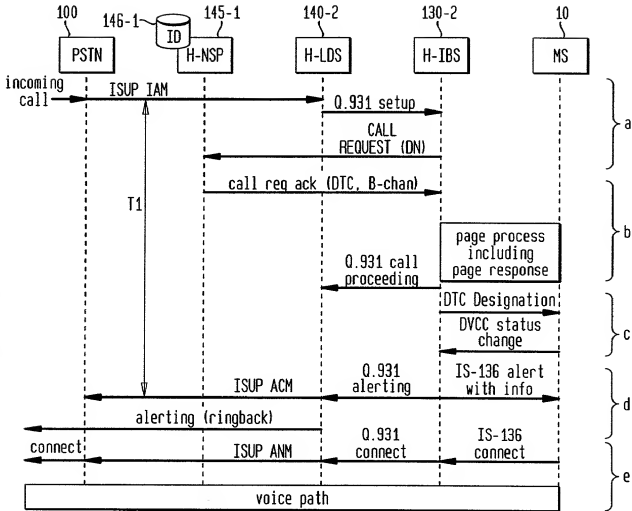
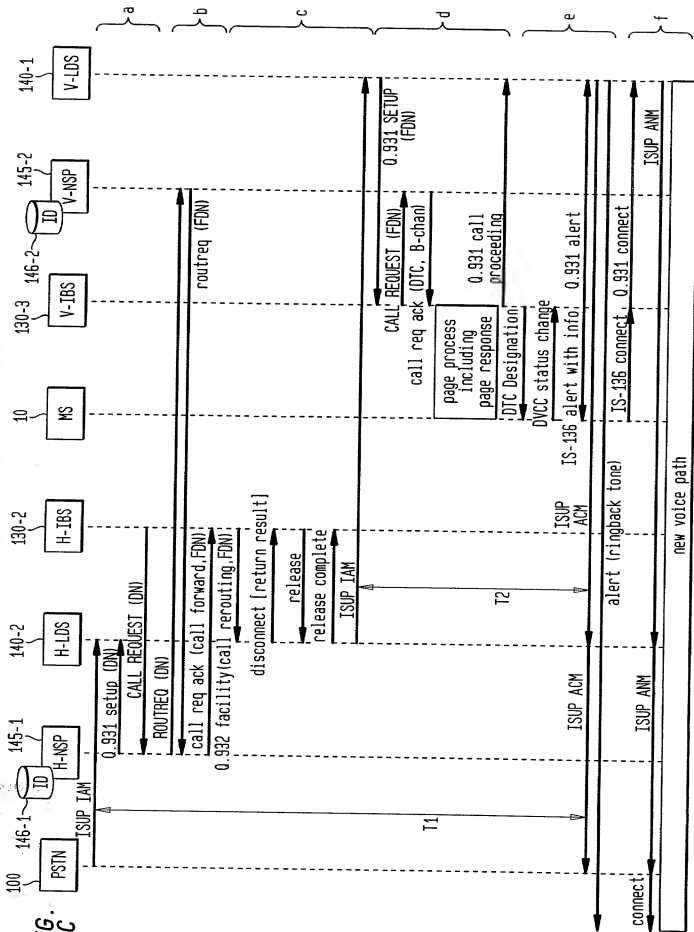
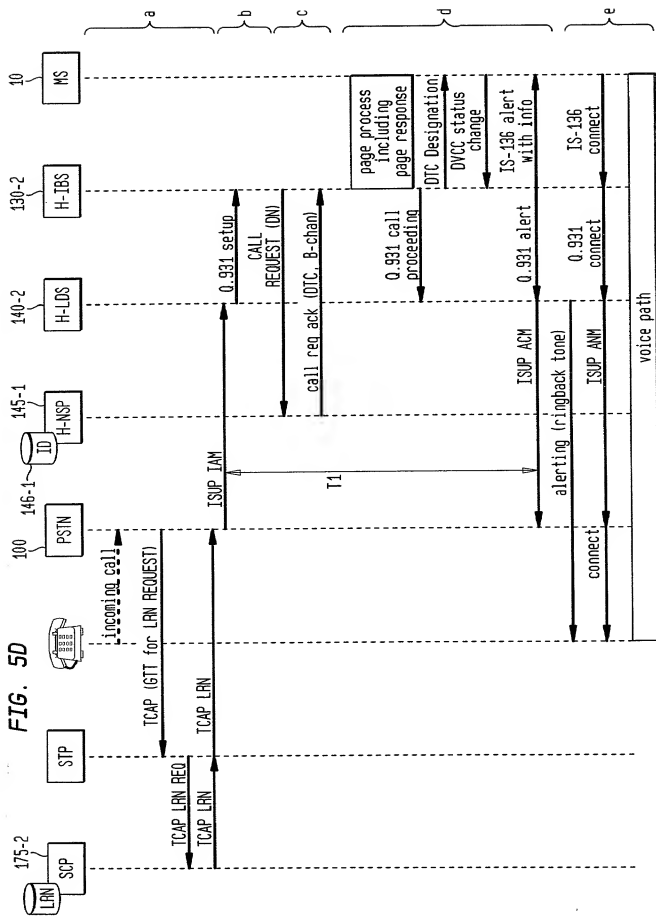
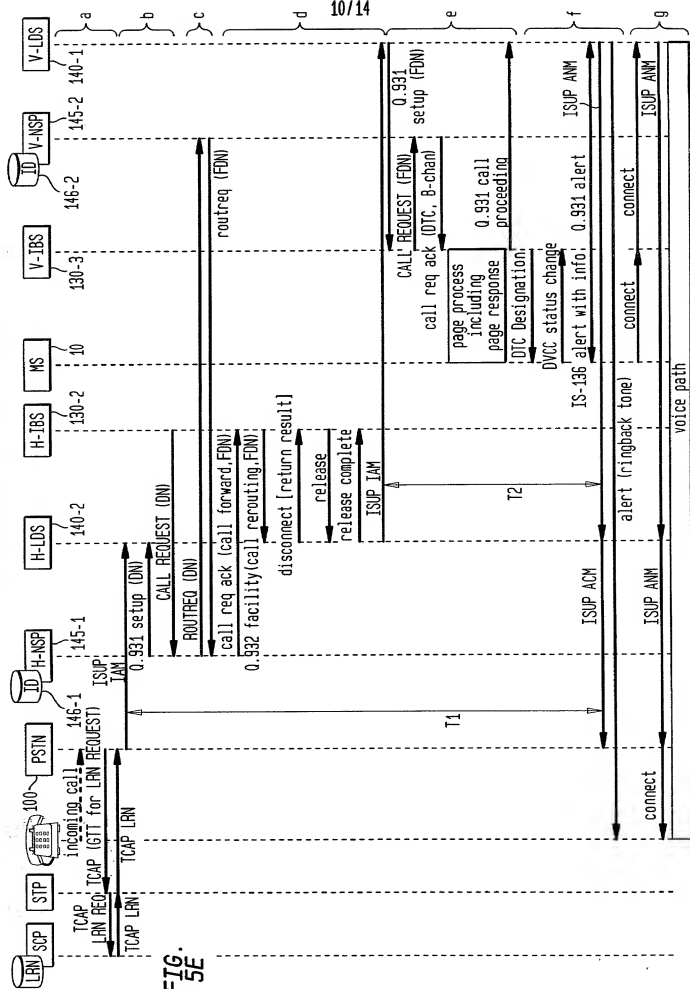


FIG. 5C



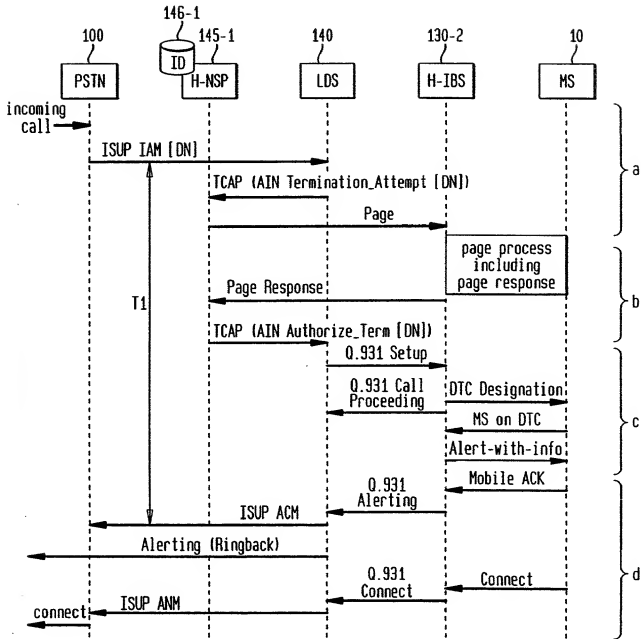






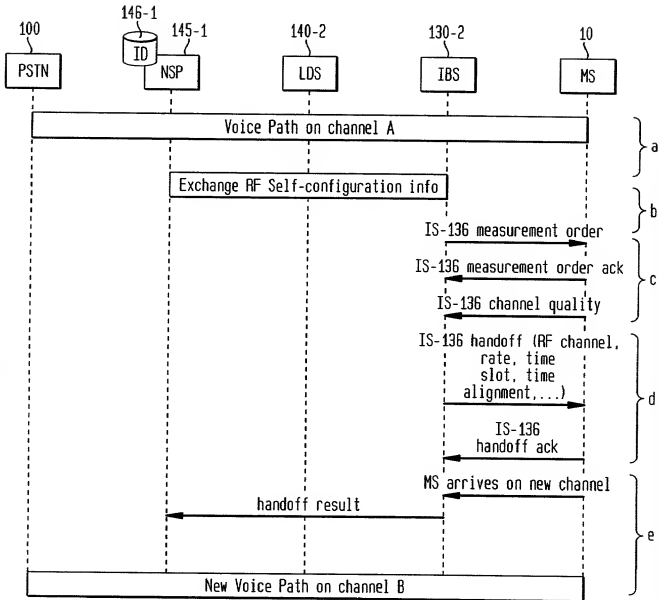
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FIG. 5F



2005071610: 01:29:00

FIG. 6A



00007610.042002

FIG. 6B

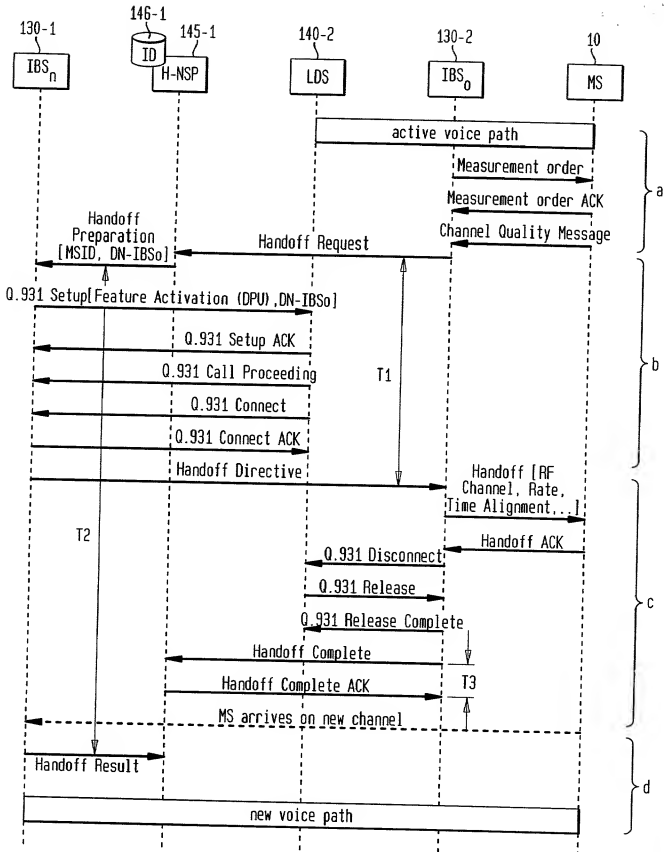
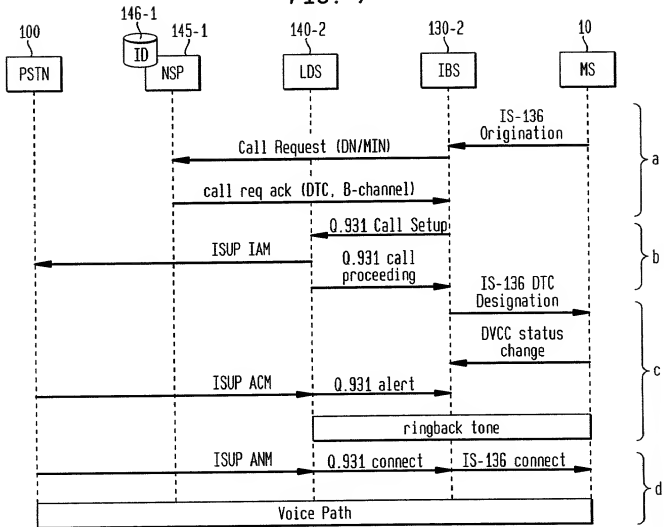


FIG. 7



09987510 0129902